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NOTICE OF ALLOWANCE AND FEE(S) DUE

166

7590

06/30/2009

EXAMINER

SAUCIER, SANDRA E

ART UNIT PAPER NUMBER

YOUNG & THOMPSON 209 Madison Street Suite 500 ALEXANDRIA, VA 22314

1651 DATE MAILED: 06/30/2009

APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/531,570	11/09/2005	Sakae Sato	8062-1029	1832	

TITLE OF INVENTION: VIRAL REDUCTION METHOD FOR PLASMA USING A LEUKOCYTE-REDUCTION FILTER AND TWO

VIRUS-REDUCTION FILTERS OF DECREASING PORE DIAMETERS

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	09/30/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

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Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

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466		/2009						
YOUNG & TF 209 Madison Str Suite 500	reet] ; •					
ALEXANDRIA	, VA 22314		[(Depositor's name)	
							(Signature)	
			l				(Date)	
APPLICATION NO.	FILING DATE		FIRST NAMED INVENT	OR	ATTO	ORNEY DOCKET NO.	CONFIRMATION NO.	
10/531,570	11/09/2005		Sakae Sato			8062-1029	1832	
	ON: VIRAL REDUC' FILTERS OF DECREAS			A LEUKO	CYTE-REDUC	TION FILTER AN	D TWO	
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nonprovisional	NO	\$1510	\$300	_	\$0	\$1810	09/30/2009	
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SAUCIER,	SANDRA E	1651	435-002000				_	
CFR 1.363). Change of corresp Address form PTO/SD "Fee Address" ind PTO/SB/47; Rev 03-(Number is required.	(1) the names of up to 3 registered patent attorneys or agents OR, alternatively, (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.							
PLEASE NOTE: Un	th in 37 CFR 3.11. Comp	ified below, no assignee	data will appear on th	e patent. If an assignme ITY and STA	nt. TE OR COUN	TRY)	ocument has been filed for	
Please check the appropr	riate assignee category or	categories (will not be p	rinted on the patent):	Individu	al 🖵 Corporat	tion or other private gro	oup entity Government	
4a. The following fee(s)	are submitted:	4	b. Payment of Fee(s): (I		eapply any pre	viously paid issue fee	shown above)	
☐ Issue Fee☐ Publication Fee (N	No small entity discount p	permitted)	☐ A check is enclosed. ☐ Payment by credit card. Form PTO-2038 is attached.					
	# of Copies		The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form).					
5. Change in Entity Sta	,	· · · · · · · · · · · · · · · · · · ·	_					
	ns SMALL ENTITY state				_	TITY status. See 37 CF	FR 1.27(g)(2). e assignee or other party in	
interest as shown by the	records of the United Sta	tes Patent and Trademarl	k Office.	ап ше арриса	int, a registereu	attorney of agent, of th	e assignee of other party in	
Authorized Signature				Date				
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PTOL-85 (Rev. 08/07) Approved for use through 08/31/2010.

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10/531,570	10/531,570 11/09/2005		Sakae Sato	8062-1029	1832	
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YOUNG & TH	OMPSON	SAUCIER, SANDRA E				
209 Madison Stre	et			ART UNIT	PAPER NUMBER	
Suite 500 ALEXANDRIA,	VA 22314			1651 DATE MAILED: 06/30/2009		

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 278 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 278 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 (571)-272-4200.

	Application No.		Applicant(s)				
	10/531,570	5	SATO ET AL.				
Notice of Allowability	Examiner		Art Unit				
	Sandra Saucier	1	1651				
The MAILING DATE of this communication appear All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIOF the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLC or other appropriate IGHTS. This applica and MPEP 1308.	OSED in this applic communication w tion is subject to w	cation. If not include ill be mailed in due vithdrawal from issu	ed course. THIS			
2. The allowed claim(s) is/are <u>12,15,19,20,22-27 and 31</u> .							
 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some* c) None of the: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 							
4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.							
5. CORRECTED DRAWINGS (as "replacement sheets") mus	st be submitted.						
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached							
1) hereto or 2) to Paper No./Mail Date							
Paper No./Mail Date	(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date						
ldentifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).							
6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.							
Attachment(s) 1. ☐ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	6.		TO-413),	owance			
/Sandra Saucier/ Primary Examiner Art Unit: 1651							

Application/Control Number: 10/531,570

Art Unit: 1651

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with R. Goozner on 6/17/09.

The application has been amended as follows:

IN THE CLAIMS

Claims 13, 14, 17, 18, 21, 28, 29 and 32 have been cancelled.

- 12. A method for reducing viruses from a human or animal plasma comprising the following steps (a) and (b):
- (a) separating plasma from whole blood obtained from a human or animal.

reducing leukocytes in the plasma by filtering the plasma through a leukocyte reducing filter thereby producing leukocyte-reduced plasma,

(b) filtering the leukocyte-reduced plasma through a first and second virus removal membrane which are in series and have decreasing average pore diameters.

wherein the plasma has not been frozen prior to steps (a) or (b).

- 15. The method according to claim 12, wherein step (a) is performed within four hours after collection of the blood.
- 20. The method according to claim 12, wherein the first virus removal membrane used in step (b) has an average pore diameter of 100 nm or less.

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Art Unit: 1651

24. The method according to claim 12, wherein the amount of the blood in step (a) and the amount of leukocyte-reduced plasma in step (b) is 100 to 500 mls.

- 25. The method according to claim 12, wherein the duration of step (b) is 40 minutes or less.
- 26. The method according to claim 12, wherein the first virus removal membrane used in step (b) has an average pore diameter of 75 nm or less.
- 27. The method according to claim 12, wherein the first virus removal membrane used in step (b) has an average pore diameter of 75 nm and the second virus removal membrane has an average pore diameter of 35 nm.

IN THE TITLE

A VIRAL REDUCTION METHOD FOR PLASMA USING A LEUKOCYTE-REDUCTION FILTER AND TWO VIRUS-REDUCTION FILTERS OF DECREASING PORE DIAMETERS.

REASONS FOR ALLOWANCE

The following is an examiner's statement of reasons for allowance:

The declaration filed 4/2/09 is persuasive of the criticality and therefore the unobviousness in the order of the filtration steps.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

/Sandra Saucier/ Primary Examiner, Art Unit 1651